<u>**Amendments to the Claims**</u>

This list of claims will replace all prior versions, and listings, of claims in the application.

<u>Listing of Claims:</u>

Claim 1 (currently amended): A switch fabric network for routing packets, wherein each of said packets comprise packet field data, comprising: a switch having a plurality of ports, wherein said switch receives a packet on one of said plurality of ports, and based ~~solely~~ <u>only</u> on said packet field data and the number of said ports, transmits said packet on a second one of said plurality of ports.

Claim 2 (currently amended): ~~A system of claim 1 wherein~~ <u>A switch fabric network for routing packets, wherein each of said packets comprise packet field data,</u> said packet field data comprising a turn pool, wherein said turn pool comprises a plurality of turn values, and a turn value indicates the position of ~~said~~ <u>a</u> second port relative to ~~said~~ <u>a</u> first port<u>, said network comprising: a switch having a plurality of ports, wherein said switch receives a packet on said first port of said plurality of ports, and based on said packet field data and the number of said ports, transmits said packet on</u> ~~a~~ <u>said second port of said plurality of ports</u>.

Claim 3 (cancelled)

Claim 4 (currently amended): A system of claim ~~1~~ <u>2</u> wherein said packet field data is comprised of a credit length, a

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bit count, ~~a turn pool,~~ an operation, a Path Identifier
(PID) index, a Maximum Transmission Unit (MTU) and an
Extended Unique Identifier (EUI).

Claims 5-12 (cancelled)

Claim 13 (previously presented): The system of claim 2
wherein said packet field data further comprises a bit
count.

Claim 14 (currently amended): A switch for routing a
packet, wherein said packet comprises packet field data,
comprising:
    a plurality of ports;
    means for receiving said packet on a first of said
    ports;
    means for determining ~~the appropriate~~ a second port on
    which to transmit said received packet, using only
    said packet field data and the number of said ports;
    and
means for transmitting said packet on said ~~determined~~
~~appropriate~~ second port.

Claim 15 (currently amended): ~~The switch of claim 14,~~
~~wherein~~ A switch for routing a packet, wherein said packet
comprises packet field data, said packet field data
comprising a turn pool, wherein said turn pool comprises a
plurality of turn values, and a turn value indicates the
position of ~~said determined~~ a second port relative to ~~said~~
a first port, said switch comprising:
    a plurality of ports;

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means for receiving said packet on said first port of
said plurality of ports;

means for determining said second port on which to
transmit said received packet, using said packet field
data and the number of said ports; and

means for transmitting said packet on said second
port, where said determining means utilizes said turn
pool to select said ~~appropriate~~ second port.

Claim 16 (currently amended): The switch of claim 15,
wherein said packet field data further comprises a bit
count and said determining means utilizes said bit count to
select said ~~appropriate~~ second port.

Claim 17 (currently amended): The switch of claim ~~14~~ 15,
further comprising means to modify said packet field data
prior to transmitting said packet.

Claim 18 (currently amended): A method of routing a packet
from a source to a destination within a fabric having at
least one switch, said switch having a plurality of ports,
said method comprising:

encapsulating said packet with a header, wherein said
header comprising packet field data;

transmitting said encapsulated packet from said source
to said switch;

receiving said encapsulated packet by said switch on a
first of said ports;

determining ~~an appropriate output~~ a second port using
only said packet field data and the number of said
ports; and

transcribing said encapsulated packet from said switch via said ~~appropriate~~ second output port.

Claim 19 (currently amended): The method of claim 18 further comprising modifying said packet field data prior to transmitting via said ~~appropriate output~~ second port.

Claim 20 (currently amended): ~~The method of claim 18, whereby~~ A method of routing a packet from a source to a destination within a fabric having at least one switch, said switch having a plurality of ports, said method comprising:

    encapsulating said packet with a header, wherein said header comprises packet field data, said packet field data ~~comprises~~ comprising a turn pool, wherein said turn pool comprises a plurality of turn values, and a turn value indicates the position of ~~said appropriate output~~ a second port relative to ~~said~~ a first port;
    transmitting said encapsulated packet from said source to said switch;
    receiving said encapsulated packet by said switch on ~~a~~ said first port of said plurality of ports;
    determining said second port using said packet field data and the number of said ports; and
transmitting said encapsulated packet from said switch via said second port.

Claim 21 (previously presented): The method of claim 20 whereby said packet field data further comprises a bit count.

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Claim 22 (currently amended): The method of claim ~~19~~
~~whereby said packet field data comprises a turn pool,~~
~~wherein said turn pool comprises a plurality of turn~~
~~values, and a turn value indicates the position of said~~
~~appropriate output port relative to said first port~~ 20
further comprising modifying said packet field data prior
to transmitting via said second port.

Claim 23 (previously presented): The method of claim 22
whereby said packet field data further comprises a bit
count.

Claim 24 (currently amended): The method of claim ~~18~~ 20,
wherein said fabric comprises a plurality of switches, and
said method further comprises repeating said receiving,
determining and transmitting steps until said packet
reaches said destination.

Claim 25 (previously presented): The method of claim 21,
further comprising using said turn pool and bit count of
said packet received by said destination to create a second
header, used by said destination, to encapsulate a second
packet to be routed from said destination to said source.

Claim 26 (previously presented): The method of claim 23,
further comprising using said turn pool and bit count of
said packet received by said destination to create a second
header, used by said destination, to encapsulate a second
packet to be routed from said destination to said source.

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